

Berkeley Smart Solar Program
Partners Kick Off Meeting
Thursday, November 1, 2007
9-11 AM
Permit Service Center Building
Sitka Spruce Conference Room, 2nd Floor
2118 Milvia Street, Berkeley

Notes (Prepared by Patty Kappaz)

Attendance: Neal De Snoo, City of Berkeley; Billi Romain, City of Berkeley; Tim Burroughs, City of Berkeley; Dan Marks, City of Berkeley; Alice La Pierre, City of Berkeley; Cisco De Vries, City of Berkeley; Bruce Mast, BIG; Katy Hollbacher, BIG; Dan Kammen, RAEL; Stephen Portis, RAEL; Cal Broomhead, City and County of San Francisco; Scott Wentworth, City of Oakland; Darren Bouton, PG&E; Patricia St. Onge, CESC; Margie Bates, DOE; Alicen Kandt, NREL; Chandra Shah, NREL; Rich Brown, LBL; Patty Kappaz, SENTECH/DOE.

- I. Introductions
 - a. Meeting participants introduced themselves, their organizations, and roles in Berkeley's Solar America Cities effort.
- II. Purpose of Meeting
 - a. To kick off Berkeley's Solar America Cities project, meet the partners involved, review Phase I work program, and identify leads and support roles for tasks.
- III. Project Background
 - a. Project summary – Solar aggregation program modeled after Smart Lights program. Two-phase project: 1) develop business plan – identify barriers, look at markets, solutions to address barriers, and 2) pilot project – first in Berkeley, and eventually in a regional model.
 - b. East Bay Energy Watch expects to have \$5M in funding after the two year project.
 - c. Partnership is a group of service providers under contract to PG&E – utilities will be required to participate in strategic planning.
 - d. Build it Green will be the principal contractor for Phase I (including conducting the workshops), and will be supported by other partners.
- IV. Partners Statements of Roles and Responsibilities
 - a. Berkeley Energy and Sustainable Development – Neal De Snoo is overall program manager/principal investigator for this effort.
 - b. Build It Green – main contractor on Phase I of this effort. Please copy Bruce Mast on all correspondence.
 - c. US DOE Golden Field Office – Margie Bates is DOE's Project Officer for this effort.

- d. US DOE NREL – Alicen Kandt – Tiger Team/technical assistance lead for this effort. Will work with Neal on outlining technical assistance tasks.
- e. US DOE HQ – developing Solar America Cities website and can provide assistance in developing the implementation plan. Will develop lessons learned/best practices of Berkeley’s program.
- f. UCB/RAEL – can provide technical support to this effort, e.g. modeling, analysis, and engineering.
- g. PG&E/EBEW – PG&E’s interest is in net metering, tariff issues, technical training and outreach. Utilities to participate in strategic planning.
- h. Cities of Oakland and San Francisco – can leverage their experience/resources with Berkeley.
- i. CESC – primary implementer of Smart Lights, and hopes to do the same for Berkeley’s solar aggregation program.

V. Review of Phase I Work Program and Identification of Lead and Support Roles (See Workplan spreadsheet for details)

- a. Stakeholder Participation – BIG will lead stakeholder workshops, but looking for help from all partners on how to address the issues. Cisco said that the City could help recruit folks to attend.
- b. Market Research – Need quantitative and qualitative data.
 - i. Technical Potential – solar rooftop potential and GHG offset potential from solar.
 - 1. NREL can assist with this.
 - 2. CH2MHill offered to roll out its solar map in Berkeley, but it’s expensive.
 - 3. Oakland has high-resolution graphics they use for public works aerials; they developed a solar opportunity incentive tool with San Francisco State University – can look at tree shading, etc. Alicen Kandt and Scott Wentworth will follow up to coordinate with SF State folks.
 - 4. Dan Kammen mentioned an intern/mentor program between UCB and PUC/city/PG&E. UCB has \$300K available that could fund students up to 20hrs/week + travel expenses.
 - ii. Market Potential – RAEL will lead. May have resources currently available to address this.
 - iii. Barrier identification – DOE implementation plan guide and stakeholder workshops could be used to identify barriers.
 - iv. Financing proformas – related to market potential.
- c. Technical Research
 - i. System Prototypes (need prototypes before can assess technical potential) – NREL/Tiger Team will lead
 - 1. Vote Solar (San Fran) created a series of prototypes – 1.5 and 2 kW systems and series of estimates. Gwen Rose or Adam Brown are contacts at Vote Solar, and Peter Lehman

at Humboldt State University (Director of Schatz Energy Research Center).

ii. Audit Standards

1. Want building energy efficiency baseline threshold for solar installations.
2. Also need audit standardization so that reporting protocols are uniform. Looking to create a master audit (zero energy audit) that looks at renewable energy potential, energy efficiency, and how to fill the gap – tool to bundle the info for the client/customer. Looking to PG&E to pilot this audit program.
3. CEC may be looking at Title 24 + 15% more efficiency but may only be for new construction. In 2008 the standard goes beyond only requiring the audit.
4. Software: Energy Pro and Micropass

iii. Codes Issues – BIG will address.

VI. Planning Stakeholder Kick Off Event

- a. May be a series of workshops for targeted participants rather than one kickoff event.

VII. Reporting Match Funding

- a. All cost-sharing partners must report match funding to Neal.

VIII. Next Steps

- a. Neal De Snoo and Bruce Mast will develop schedule and deliverables for all partners that identifies task areas and associated lead and support roles.

IX. Wrap Up

Additional Activities (optional)

11:00 Hills Fire Station LEED Certification Ceremony

12:30 Lunch and further discussion